

What is claimed is:

1. A disk administrating system for disk in multiple disk-arrays containing at least one disk array, comprising:

a computer having an interface card;

5 a plurality of disk drives connected to said interface card;

wherein said plurality of disk drives constitute to be at least one disk array, each of said disk drives having an array configuration sector located at said last sector thereof;

10 wherein said computer accesses said disk drives through said interface card and manage said disk array by information stored in said array configuration sector.

2. The disk administrating system as in claim 1, wherein said array configuration sector is stored with an array configuration data.

3. The disk administrating system as in claim 2, wherein said array
15 configuration data comprises an array signature field for recognizing whether said disk drive is an array disk.

4. The disk administrating system as in claim 2, wherein said array configuration data comprises an array information to record status and setting of said array.

20 5. The disk administrating system as in claim 4, wherein said information comprises at least an array type field, a disk number field, a stripe size field and an available capacity field.

6. The disk administrating system as in claim 5, wherein said information further comprises an array broken flag to check said integrity of said array.

25 7. The disk administrating system as in claim 5, wherein said information further comprises an array serial number field to identify array of different types.

8. The disk administrating system as in claim 4, wherein said array configuration data comprises a disk information to record information of disk.

30 9. The disk administrating system as in claim 8, wherein said disk information comprises at least a serial check sum field.

10. The disk administrating system as in claim 8, wherein said disk information comprises at least a bootable field.

11. The disk administrating system as in claim 8, wherein said disk

information comprises at least a sequence/function field.

12. The disk administrating system as in claim 8, wherein said disk information comprises at least an enhanced field.

13. The disk administrating system as in claim 2, wherein said array
5 configuration data further comprises a plurality of serial check sums for every disk in said same disk array.

14. The disk administrating system as in claim 13, wherein said serial check sum of each disk is obtained according to an operation on a model number, a serial number, and a firmware revision number of said disk.

10 15. The disk administrating system as in claim 13, wherein said serial check sum of each disk is arranged according to a sequence of said disk in said array.

16. The disk administrating system as in claim 13, wherein the array configuration data further comprises a serial check sum for array configuration.

15 17. The disk administrating system as in claim 16, wherein said serial check sum for array configuration is obtained according to an operation on all information of said array.